

TOP SECRET

PRIORITY

25X1

25X1

P 132357Z
FM NPIC
TO AFSSO USAF
AFSSO PACAF

CNO

OPCEN

YWQLAZC/AFSSO SAC

YWQLAZC/AFSSO ACIC

YWQLAZC/AFSSO FTD

YWQLAZC/AFSSO DIA PROD CTR

T O P S E C R E T

OUT-51865

HFS

CJS

CEG

PNS

ACL

1963 SEP 14 05 08Z

16 SEP 1963

25X1

25X1

Grace (File))

SSOS PASS TO APPROPRIATE

25X1

25X1

TCOS. CITE NPIC 1170. THE FOLLOWING INFORMATION IS FROM THE

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER:

SUBJECT: EPHEMERIS INFORMATION FOR MISSION 4002.

NOTE: TYPE MODE NUMBER DESIGNATION IS AS FOLLOWS:

NO. 1 - INDICATES STEREO MODE

NO. 2 - INDICATES STRIP MODE

NO. 3 - INDICATES LATERAL PAIR

TYPE CLOCK TIME SYSTEM TIME

ANGLES (DEG) CAMERA ON

LAT LONG

25X1

25X1

TOP SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

25X1

25X1

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05	1	2	26738.8	10456.1	10556.1	0	2.0	62	54N	135	09E
05	2	2	26845.8	10563.1	10583.1	0	2.0	55	40N	132	33E
05	3 FWD	1	26874.1	10591.4	10599.7	0	2.5	53	45N	132	00E
05	4 AFT	1	26887.7	10605.0	10613.3	0	2.5	53	45N	132	00E
05	5 FWD	1	26911.2	10628.5	10636.8	0	2.5	51	14N	131	19E
05	6 AFT	1	26924.8	10642.1	10650.4	0	2.5	51	14N	131	19E
05	7	2	26942.5	10659.8	10704.8	0	2.5	49	07N	130	48E
05	8	2	27044.9	10762.2	10822.2	0	0	42	09N	129	17E
06	1	2	31919.8	15637.1	15737.1	0	1.5	74	11N	120	32E
06	2	2	32022.7	15740.0	15840.0	0	2.0	67	22N	115	04E
06	3	2	32124.4	15841.7	15941.7	0	2.5	60	32N	111	53E
06	4	2	32277.1	15994.4	16094.4	0	2.5	50	12N	108	45E
06	5	2	32379.6	16096.9	16196.9	0	3.0	43	13N	107	11E
06	6	2	32482.0	16199.3	16299.3	0	3.0	36	15N	105	52E
06	7	2	32584.6	16301.9	16401.9	0	0	29	15N	104	41E
07	1	2	37391.3	21108.6	21208.6	0	2.0	66	10N	92	05E
07	2	2	37552.0	21269.3	21369.3	0	2.5	55	20N	87	50E
07	3	2	37653.6	21370.9	21470.0	0	2.5	48	27N	86	01E
07	4	2	37755.2	21472.5	21572.5	0	3.0	41	32N	84	32E
07	5	2	37858.5	21575.8	21635.8	0	0	34	29N	83	14Z
08	1	2	42628.1	26345.4	26445.4	0	1.5	73	38N	75	20E

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08	2	2	42731.6	26448.9	26548.9	0	2.0	66	46N	70	06E
08	3	FWD 1	42869.2	26586.5	26594.8	0	2.0	57	31N	66	12E
08	4	AFT 1	42882.8	26600.1	26608.4	0	2.0	57	31N	66	12E
08	5	FWD 1	42902.1	26619.4	26625.6	0	2.0	55	17N	65	30E
08	6	AFT 1	42915.7	26633.0	26639.2	0	2.0	55	17N	65	30E
08	7	FWD 1	42933.3	26650.6	26656.8	0	2.5	53	10	64	54E
08	8	AFT 1	42946.9	26664.2	26670.4	0	2.5	53	10N	64	54E
08	9	FWD 1	42966.6	26683.9	26692.2	0	2.5	50	55N	64	18E
08	10	AFT 1	42980.2	26697.5	26705.8	0	2.5	50	55N	64	18E
08	11	FWD 1	42999.0	26716.3	26721.1	0	2.5	48	42N	63	46E
08	12	AFT 1	43011.2	26728.5	26733.3	0	2.5	48	42N	63	46E
08	13	FWD 1	43028.6	26745.9	26754.2	0	2.5	46	42N	63	18E
08	14	AFT 1	43042.2	26759.5	26767.8	0	2.5	46	42N	63	18E
08	15	FWD 1	43061.5	26778.8	26785.0	0	2.5	44	27N	62	49E
08	16	AFT 1	43075.1	26792.4	26798.6	0	2.5	44	27N	62	49E
08	17	FWD 1	43090.2	26807.5	26814.4	0	3.0	42	30N	62	25E
08	18	AFT 1	43102.4	26819.7	26826.6	0	3.0	42	30N	62	25E
08	19	FWD 1	43119.9	26837.2	26843.4	0	3.0	40	29N	62	01E
08	20	AFT 1	43133.5	26850.8	26857.0	0	3.0	40	29N	62	01E
08	21	FWD 1	43150.9	26868.2	26876.5	0	3.0	38	22N	61	38E
08	22	AFT 1	43164.5	26881.8	26890.1	0	3.0	38	22N	61	38E
08	23	FWD 1	43181.6	26898.9	26905.1	0	0	36	16N	61	15E

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08	24	AFT	1	43195.2	26912.5	26912.7	0	0	36	16N	61	15E
09	1		2	48063.0	31780.3	31838.3	0	1.5	68	02N	48	32E
09	2		2	48124.2	31841.5	31901.5	0	2.0	63	56N	46	21E
09	3		2	48226.5	31943.8	31953.8	0	2.0	57	02N	43	44E
09	4	FWD	1	48246.8	31964.1	31972.4	0	2.0	55	39N	43	18E
09	5	AFT	1	48260.4	31977.7	31986.0	0	2.0	55	39N	43	18E
09	6	FWD	1	48284.1	32001.4	32008.3	0	2.5	53	08N	42	35E
09	7	AFT	1	48296.3	32013.6	32020.5	0	2.5	53	08N	42	35E
09	8	FWD	1	48325.3	32042.6	32049.5	0	2.5	50	20N	41	51E
09	9	AFT	1	48337.5	32054.8	32061.7	0	2.5	50	20N	41	51E
09	10	FWD	1	48355.0	32072.3	32080.6	0	2.5	48	19N	41	22E
09	11	AFT	1	48368.6	32085.9	32094.2	0	2.5	48	19N	41	22E
09	12	FWD	1	48400.6	32117.9	32126.2	0	0	45	13N	40	40E
09	13	AFT	1	48414.2	32131.5	32139.8	0	0	45	13N	40	40E
10	1	FWD	1	53548.3	37265.6	37269.7	0	2.0	58	57N	22	03E
10	2	AFT	1	53561.9	37279.2	37283.3	0	2.0	58	57N	22	03E
10	3	FWD	1	53581.4	37298.7	37307.0	0	2.0	56	42N	21	19E
10	4	AFT	1	53595.0	37312.3	37320.6	0	2.0	56	42N	21	19E
10	5	FWD	1	53613.9	37331.2	37339.5	0	2.0	54	30N	20	39E
10	6	AFT	1	53627.5	37344.8	37353.1	0	2.0	54	30N	20	39E
10	7	FWD	1	53643.9	37361.2	37369.5	0	2.5	52	28N	20	05E

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10	8	AFT	1	53657.5	37374.8	37383.1	0	2.5	52	28N	20	05E
10	9	FWD	1	53682.8	37400.1	37408.4	0	0	49	50N	19	25E
10	10	AFT	1	53696.4	37413.7	37422.0	0	0	49	50N	19	25E
11	1		2	58277.3	41994.6	42002.6	0	0	77	45N	154	41E
11	2		2	58323.2	42040.5	42048.5	0	0	80	35N	147	42E
11	3		2	58370.8	42088.1	42096.1	0	0	83	17N	134	37E
11	4		2	58424.7	42142.0	42150.0	0	0	85	25N	103	15E
11	5		2	58473.2	42190.5	42198.5	0	.5	85	18N	61	26E
11	6		2	58507.3	42224.6	42232.6	0	.5	84	01N	40	22E
11	7		2	58555.2	42272.5	52280.5	0	.5	81	26N	24	09E
11	8		2	58599.4	42316.7	42324.7	0	0	78	44N	16	08E
14	1	FWD	1	75509.9	59227.2	59235.5	0	0	20	44N	75	07W
14	2	AFT	1	75523.5	59240.8	59249.1	0	0	20	44N	75	07W
21	1	FWD	1	112595.1	9912.4	9917.2	0	2.5	45	13N	132	58E
21	2	AFT	1	112607.3	9924.6	9929.4	0	2.5	45	13N	132	58E
21	3	FWD	1	112619.9	9937.2	9942.0	0	0	43	32N	132	36E
21	4	AFT	1	112632.1	9949.4	9954.2	0	0	43	32N	1"2	36E
22	1		2	117803.5	15120.8	15160.8	0	3.0	54	46N	113	01E
22	2	FWD	1	118001.1	15318.4	15326.7	0	3.0	41	21N	109	52E
22	3	AFT	1	118014.7	15332.0	15340.3	0	3.0	41	21N	109	52E
22	4	FWD	1	118094.2	15411.5	15419.8	0	0	35	00N	108	41E

22	5	AFT	1	118107.8	15425.1	15433.4	0	0	35	00N	108	41E
23	1	FWD	1	123086.8	20404.4	20412.4	0	2.0	59	13N	92	08E
23	2	AFT	1	123100.4	20417.7	20426.0	0	2.0	59	13N	92	08E
23	3	FWD	1	123119.3	20436.6	20444.9	0	0	57	01N	91	24E
23	4	AFT	1	123132.9	20450.2	20458.5	0	0	57	01N	91	24E
24	1		2	128211.8	25529.1	25629.1	0	1.5	74	03N	78	50E
24	2		2	128316.6	15633.9	25733.9	0	2.0	67	06N	73	21E
24	3		2	128420.9	25738.2	25838.2	0	2.0	60	06N	70	09E
24	4	FWD	1	128533.1	25850.4	25858.7	0	2.5	52	30N	67	47E
24	5	AFT	1	128546.7	25864.0	25872.3	0	2.5	52	30N	67	47E
24	6	FWD	1	128560.7	25878.0	25886.3	0	2.5	50	38N	67	18E
24	7	AFT	1	128574.3	25891.6	25899.9	0	2.5	50	38N	67	18E
24	8	FWD	1	128588.7	25906.0	25914.3	0	2.5	48	44N	66	50E
24	9	AFT	1	128602.3	25919.6	25927.9	0	2.5	48	44N	66	50E
24	10	FWD	1	128616.4	25933.7	25942.0	0	2.5	46	51N	66	24E
24	11	AFT	1	128630.0	25947.3	25955.6	0	2.5	46	51N	66	24E
24	12	FWD	1	128644.1	25961.4	25969.7	0	2.5	44	58N	65	59E
24	13	AFT	1	128657.7	25975.0	25983.3	0	2.5	44	58N	65	59E
24	14	FWD	1	128671.7	25989.0	25997.3	0	3.0	43	05N	65	36E
24	15	AFT	1	128685.3	26002.6	26010.9	0	3.0	43	05N	65	36E
24	16	FWD	1	128712.1	26029.4	26037.7	0	0	40	20N	65	03E
24	17	AFT	1	128725.7	26043.0	26051.3	0	0	40	20N	65	03E

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25	1	2	133520.9	30838.2	30938.2	0	2.0	76	41N	59	59E
25	2	FWD 1	133860.8	31178.1	31186.4	0	2.5	54	00N	45	53E
25	3	AFT 1	133874.4	31191.7	31200.0	0	2.5	54	00N	45	53E
25	4	FWD 1	133926.9	31244.2	31252.5	0	2.5	49	"1N	44	43E
25	5	AFT 1	133940.5	31257.8	31266.1	0	2.5	49	31N	44	43E
25	6	FWD 1	133954.8	31272.1	31280.4	0	2.5	47	37N	44	16E
25	7	AFT 1	133968.4	31285.7	31294.0	0	2.5	47	37N	44	16E
25	8	FWD 1	133982.5	31299.8	31308.1	0	2.5	45	44N	43	51E
25	9	AFT 1	133996.1	31313.4	31321.7	0	2.5	45	44N	43	51E
25	10	FWD 1	134010.2	31327.5	31335.8	0	0	43	51N	43	27E
25	11	AFT 1	134023.8	31341.1	31349.4	0	0	42	51N	43	27E
26	1	FWD 1	139118.4	36435.7	36444.0	0	2.0	60	08N	25	33E
26	2	AFT 1	139132.0	36449.3	36457.6	0	2.0	60	08N	25	33E
26	3	FWD 1	139162.8	36480.1	36484.2	0	2.0	57	09N	24	31E
26	4	AFT 1	139176.4	36493.7	36497.8	0	2.0	57	09N	24	31E
26	5	FWD 1	139186.2	36503.5	36507.6	0	2.0	55	34N	24	02E
26	6	AFT 1	139199.8	36517.1	36521.2	0	2.0	55	34N	24	02E
26	7	FWD 1	139213.3	36530.6	36534.7	0	2.5	53	43N	23	30E
26	8	AFT 1	139266.9	36544.2	36548.3	0	2.5	53	43N	23	30E
26	9	FWD 1	139241.8	36559.1	36563.2	0	2.5	51	48N	22	59E
26	10	AFT 1	139255.4	36572.7	36576.8	0	2.5	51	48N	22	59E
26	11	FWD 1	139281.7	36599.0	36607.3	0	0	49	05N	22	18E

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26	12	AFT 1	139295.3	36612.6	36620.9	0	0 49 05N	22 18E
27	1	2	143863.4	41180.7	41188.7	0	0 77 44N	157 46E
27	2	2	143909.3	41226.6	41234.6	0	0 80 35N	150 47E
27	3	2	143957.1	41274.4	41282.4	0	0 83 18N	137 39E
27	4	2	144010.9	41328.2	41336.2	0	0 85 25N	106 18E
27	5	2	144058.7	41376.0	41384.0	0	.5 85 19N	65 01E
27	6	2	144093.0	41410.3	41418.3	0	.5 84 02N	43 40E
27	7	2	144141.4	41458.7	41466.7	0	.5 81 26N	27 13E
27	8	2	144185.5	41502.8	41510.8	0	0 78 44N	19 13E

		FILM SPEED	ALTITUDE	AZIMUTH		VEHICLE	SUN ANGLE
PASS	FRAME	IN/SEC	FT	DEG	MIN	VELOCITY	DEG
04	1	3.1015	628512	192	49.1	25682	26
04	2	3.1015	623760	190	30.1	25685	31
05	1	3.1326	621396	189	33.6	25686	34
05	2	3.1326	616374	187	42.9	25687	41
05	3	2.9218	615420	187	21.5	25687	43
05	4	2.9218	615024	187	12.1	25687	43
05	5	2.9218	614433	186	56.9	25686	45
05	6	2.9218	614148	186	48.7	25686	45
05	7	3.1639	613845	186	38.8	25686	47
05	8	3.1639	613587	185	52.1	25680	54
06	1	3.0708	632985	196	4.5	25678	21

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06	2	3.1015	625425	191	19.3	25684	33
06	3	3.1326	619509	188	50.5	25687	36
06	4	3.1639	614250	186	47.5	25686	45
06	5	3.1326	613680	185	58.0	25681	50
06	6	3.1326	615867	185	23.6	25673	59
06	7	3.1015	621105	184	59.2	25662	65
07	1	3.1326	624114	190	45.8	25685	29
07	2	3.1639	616269	187	38.3H	25687	40
07	3	3.1639	613977	186	32.9	25685	47
07	4	3.1326	614160	185	48.3	25679	53
07	5	3.1326	617199	185	16.5	25670	60
08	1	3.0708	631863	195	34.4	25679	23
08	2	3.1015	624546	191	3.4	25685	30
08	3	2.9218	617427	188	6.0	25687	38
08	4	2.9218	616911	187	54.1	25687	38
08	5	2.9218	616242	187	38.3	25687	40
08	6	2.9218	615816	187	28.0	25687	40
08	7	2.9218	615321	187	15.4	25687	42
08	8	2.9218	614988	187	6.3	25686	42
08	9	2.9218	614571	186	53.9	25686	45
08	10	2.9510	614340	186	45.9	25685	45
08	11	2.9218	614091	186	35.6	25685	47

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08	12	2.9510	613979	186	29.1	25684	47
08	13	2.9510	613866	186	20.5	25683	48
08	14	2.9510	613833	186	14.2	25683	48
08	15	2.9510	613872	186	5.7	25682	50
08	16	2.9510	613953	186	0.0	25681	50
08	17	2.9510	614100	185	54.1	25680	53
08	18	2.9510	614265	185	49.5	25679	53
08	19	2.9218	614568	185	43.2	25678	54
08	20	2.9218	614862	185	38.6	25677	54
08	21	2.9218	615315	185	32.9	25675	56
08	22	2.9218	615699	185	28.9	25674	56
08	23	2.9218	616323	185	23.9	25673	59
08	24	2.9218	616854	185	20.1	25671	59
09	1	3.1015	625509	191	39.6	25684	28
09	2	3.1326	621813	189	54.7	25686	33
09	3	2.9218	617089	187	59.7	25687	38
09	4	2.9218	616341	187	42.7	25687	40
09	5	2.9218	615912	187	32.1	25687	40
09	6	2.9218	615261	187	15.0	25687	42
09	7	2.9218	614970	187	6.8	25686	42
09	8	2.9218	614415	186	49.0	25685	45

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09	9	2.9510	614241	186	42.3	25685	45
09	10	2.9218	614049	186	32.4	25684	47
09	11	2.9510	613950	186	25.5	25684	47
09	12	2.9510	613899	186	10.5	25682	49
09	13	2.9510	613956	186	4.7	25681	49
10	1	2.9218	618051	188	26.2	25687	37
10	2	2.9218	617502	188	13.0	25687	37
10	3	2.9218	616782	187	55.6	25687	39
10	4	2.9218	616323	187	443	25687	39
10H	5	2.9218	615750	187	29.6	25687	41
10	6	2.9218	615384	187	19.7	25687	41
10	7	2.9218	614994	187	8.5	25686	43
10	8	2.9218	614712	186	59.7	25686	43
10	9	2.9218	614310	186	44.7	25685	46
10	10	2.9510	614151	186	37.1	25685	46
11	1	2.8642	668442	339	3.8	25637 MINUS	3
11	2	2.8929	663528	332	20.6	25644 MINUS	2
11	3	2.9218	658575	319	29.3	25651	2
11	4	2.9510	653148	288	15.8	25657	5
11	5	2.9805	648450	246	50.5	25663	9
11	6	2.9805	645255	226	10.1	25666	11
11	7	3.0103	640941	210	23.4	25671	15

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11	8	3.0404	637161	202	43.3	25675	17
14	1	2.8359	635412	184	39.1	25639	70
14	2	2.8359	636939	184	37.4	25677	70
21	1	2.9218	615999	186	10.3	25678	50
21	2	2.9218	616149	186	5.0	25677	50
21	3	2.9218	616344	185	59.8	25676	51
21	4	2.9218	616569	185	54.9	25675	51
22	1	3.1326	616860	187	31.9	25684	41
22	2	2.8929	617262	185	47.3	25673	54
22	3	2.8929	617640	185	42.5	25672	54
22	4	2.8929	620850	185	18.5	25664	59
22	5	2.8929	621579	185	15.0	25663	59
23	1	2.8929	618591	188	29.3	25685	36
23	2	2.8929	618168	188	15.9	25685	36
23	3	2.8929	617646	187	58.8	25685	38
23	4	2.9218	617313	187	47.2	25684	38
24	1	3.0708	629454	196	1.8	25680	21
24	2	3.1015	623400	191	14.2	25684	29
24	3	3.1326	618981	188	44.7	25685	35
24	4	2.9218	616401	187	9.2	25683	42
24	5	2.9218	616263	187	0.4	25682	42
24	6	2.9218	616161	186	51.8	25682	45

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24	7	2.9218	616104	186	43.9	25681	45
24	8	2.9218	616089	186	36.0	25680	45
24	9	2.9218	616119	186	28.9	25679	45
24	10	2.9218	616194	186	21.9	25679	480
24	11	2.9218	616314	186	15.4	25678	48
24H	12	2.9218	616482	186	9.1	25677	50
24	13	2.9218	616692	186	3.3	25676	50
24	14	2.9218	616956	185	57.6	25675	51
25	15	2.9218	617262	185	52.4	25674	51
24	16	2.8929	618000	185	42.6	25672	54
24	17	2.8929	618447	185	38.0	25670	54
25	1	3.0708	631728	199	9.8	25678	20
25	2	2.9218	616635	187	23.9	25683	40
25	3	2.9218	616449	187	14.3	24683	40
25	4	2.9218	616095	186	41.8	25681	45
25	5	2.9218	616104	186	34.4	25680	45
25	6	2.9218	616158	186	27.0	25679	47
25	7	2.9218	616254	186	20.3	25678	47
25	8	2.9218	616401	186	13.8	25677	49
25	9	2.9218	616587	186	7.6	25676	49
25	10	2.9218	616830	186	1.8	25675	51
25	11	2.9218	617107H	185	58.3	25674	51
26	1	2.8929	618690	188	44.6	25685	34

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26	2	2.8929	618273	188	30.4	25685	34
26	3	2.8929	617457	188	1.2	25684	38
26	4	2.9218	617157	187	49.9	25684	38
26	5	2.9218	616959	187	41.6	25684	39
26	6	2.9218	616719	187	31.0	25683	39
26	7	2.9218	616521	187	21.2	25683	41
26	8	2.9218	616353	187	11.8	25683	41
26	9	2.9218	616221	187	2.0	25682	44
26	10	2.9218	616137	186	53.8	25681	44
26	11	2.9218	616095	186	38.5	25680	45
26	12	2.9218	616119	186	32.5	25679	45
27	1	2.9218	660180	339	10.0	25645	MINUS 5
27	2	2.9218	655860	332	30.4	25651	MINUS 3
27	3	2.9510	651513	319	42.9	25656	0
27	4	2.9805	646821	288	46.9	25662	3
27	5	3.0103	642837	247	49.5	25661	7
27	6	3.0103	640095	226	39.2	25670	10
27	7	3.0404	636405	210	30.3	25674	14
27	8	3.0404	633228	202	47.8	25677	15

NOTE: FOCAL LENGTH IS 77.07 INCHES

PLUS OR MINUS 0.0005 INCHES

TOP SECRET

END OF MESSAGE

25X1